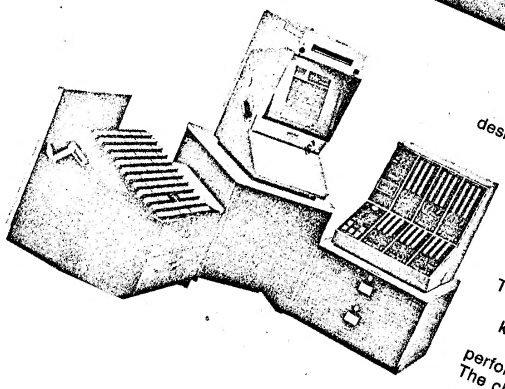
Information Retrieval with the MIRACODE® System

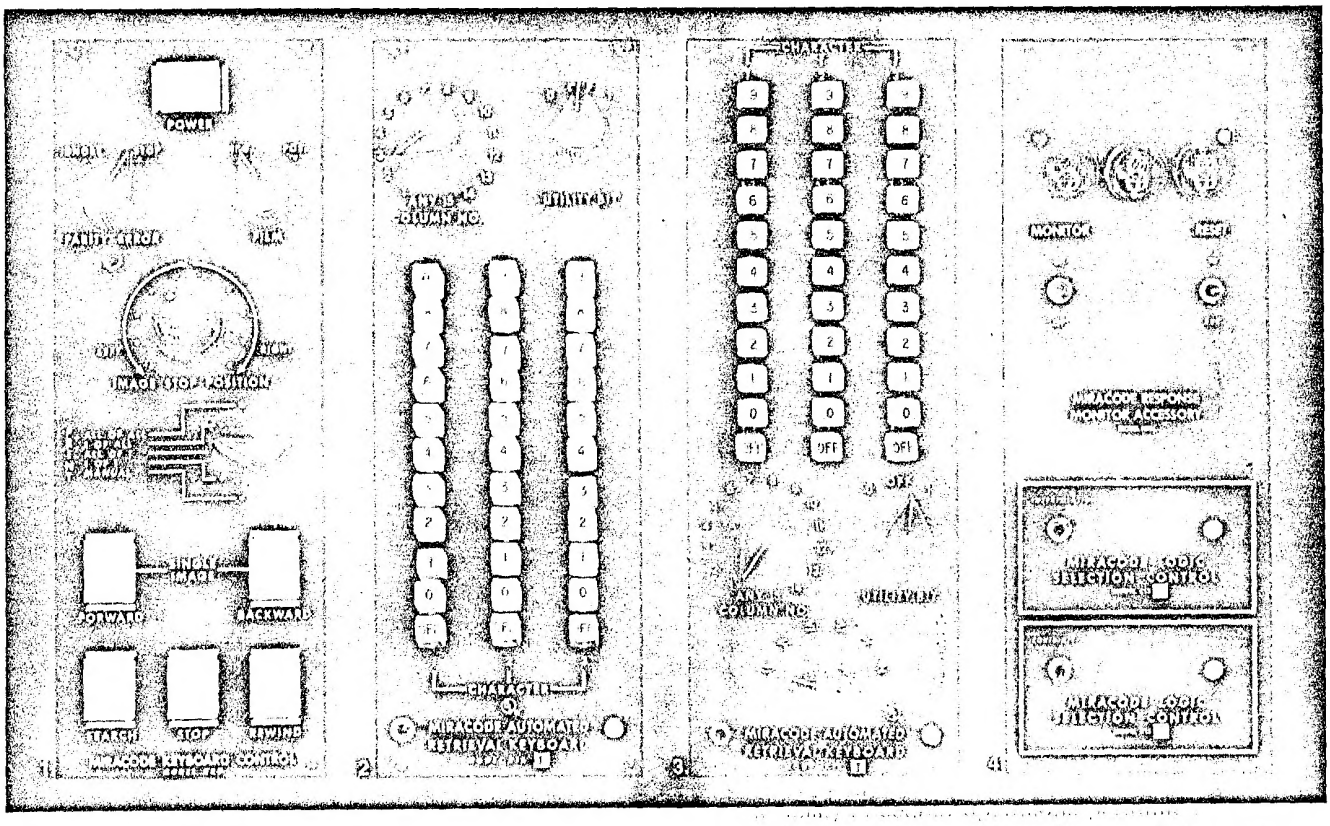


The MIRACODE System is a high-speed, automated information retrieval system. Information and its identifying code are microfilmed onto 16mm roll microfilm and stored in compact magazines. The desired information which has been filed at random within a magazine may be located in a matter of seconds.

The heart of the retrieval system is the RECORDAK LODESTAR Reader-Printer, Model PEK or PEK-1. It accepts magazine-loaded microfilm and searches it at the rate of 10 feet per second.

The system is modular in design and consists of a keyboard control and up to 15 automated retrieval keyboards. The keyboard control gives the operator fingertip access to all functions of the retrieval system. Search requests are performed with push-button ease on the retrieval keyboards. The choice of using equality or inequality keyboards permits flexibility in search operations performed. In all searches sophisticated machine logic is used by the MIRACODE System to locate desired information.

MIRACODE System Retrieval Controls



1. The MIRACODE Keyboard Control, Model KKC, controls the operation of the reader-printer. Push buttons control power, search, stop, rewind, and single-image forward and backward positioning. An image stop position control allows proper image alignment on the reader screen. Individual switches permit the operator to select the print mode, check for film parity errors, and designate positive or negative film search.

2. The MIRACODE Automated Retrieval Keyboard, Model KIR (E), is designed to locate information when the machine-readable code exactly matches the characters set in the keyboard. The keyboard contains three rows of numeric keys, from zero through nine, plus an off button for each row. A rotary switch is used to select the code column (1-15) which that particular keyboard will search. This switch may also be set to an "any" position which permits searching any of the code columns for a match. The utility bit switch can be set to add a desired "condition" to the search. The decision as to how to use the utility bit is made at the time the information is prepared for input to the system.

3. The MIRACODE Automated Retrieval Keyboard, Model KIR (I), is designed to locate every image whose code falls within the parameters specified by the keyboard. The comparison switch on this keyboard allows the operator to perform equality or inequality searches. The switch permits six types of searches: equal to (=), less than (<), equal to or less than ($\leq$), equal to or greater than ($\geq$), greater than (>), and not equal ($\neq$). The keyboard array, column selection, and utility bit configuration are identical to the equality keyboard.

4. Optional logic components may be added to the MIRACODE System at any time. **The MIRACODE Response Monitor Accessory, Model HMK,** is a three-digit visual display which may be used to show the accumulated number of correct answers in one or more rolls of film. It also allows the operator to browse the file to determine the number of responses to a given search.

The MIRACODE Logic Selection Control, Model KLS (I), is designed for use with the KIR (I) Retrieval Keyboard. This unit is necessary when searching sequential data with many items on a page. Using "equal to—greater than" logic, it automatically locates the page containing the desired information by interpolation logic.

The MIRACODE Logic Selection Control, Model KLS (E), allows the operator to search for documents coded with "Equidigit" characters. In this search mode, "Equidigit" characters are coded on the film for all unknown or unspecified data at the time the code is recorded.

Note: The KLS (I) and KLS (E) logic selection controls can be mounted in separate panels or they can be mounted on the same panel with the HMK Response Monitor.

Modifications: Equipment can be modified to have "or" logic, COM compatibility, account blocking, and other modifications to meet customer requirements.

MIRACODE® is a trademark for equipment used in a coded input, retention, access and retrieval system designed and produced by Eastman Kodak Company.

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